U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

Atty Reference: 081935/0266300

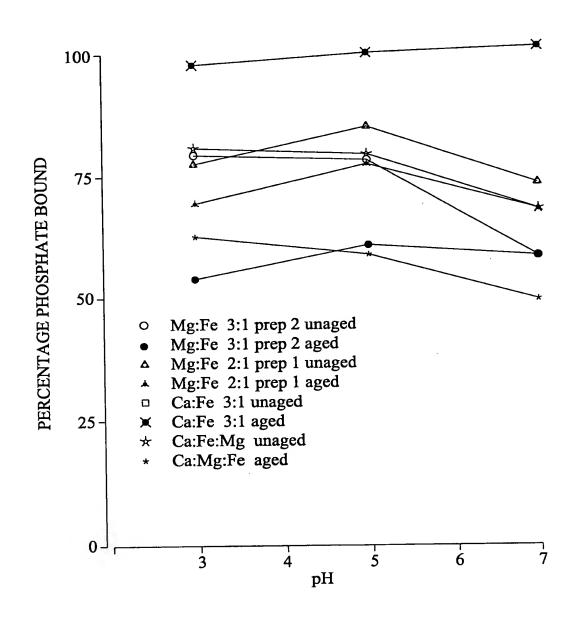
06--44--540

GAU: 1754

Sheet 1 of 10

#### FIG. 1

Effect of pH and ageing on percentage phosphate binding of mixed metal compounds



JUL 0 3 2003 F

U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

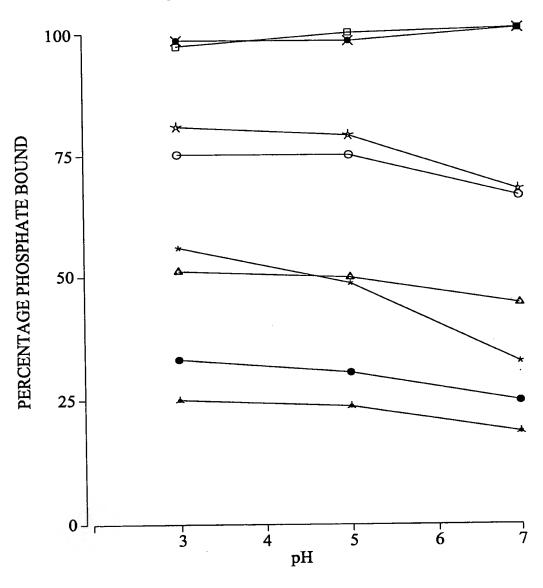
Atty Reference: 081935/0266300 Sheet 2 of 10

GAU: 1754

# FIG. 2

Effect of pH and drying on percentage phosphate binding of mixed metal compounds





JUL 0 3 2003 &

U.S. Serial No. 09/508,923

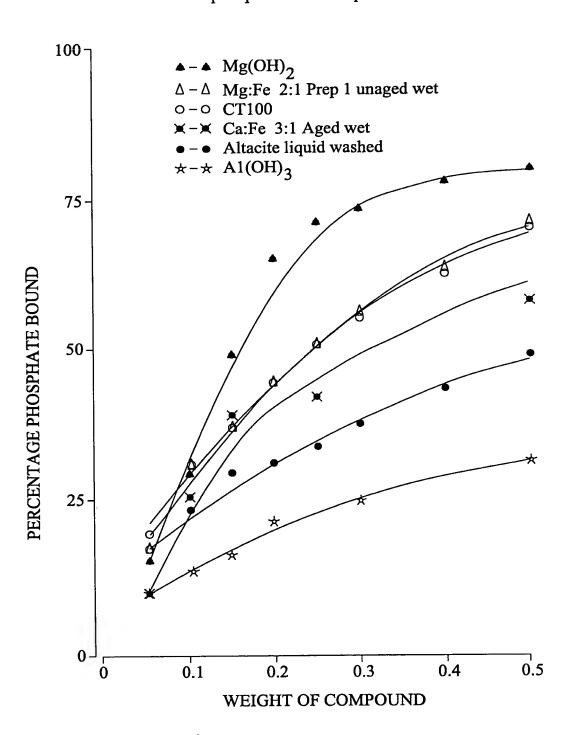
Filed: June 19, 2000 Confirmation No. 3694

Atty Reference: 081935/0266300 Sheet 3 of 10

FIG. 3

Effect of increasing weight of compound on percentage phosphate bound at pH3

GAU: 1754



U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

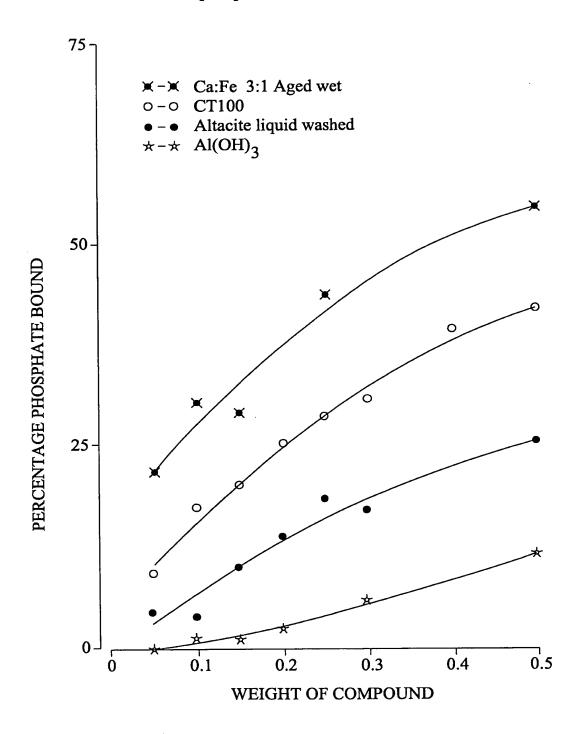
Atty Reference: 081935/0266300

GAU: 1754

Sheet 4 of 10

### FIG. 4

Effect of increasing weight of compound on percentage phosphate bound at pH7





U.S. Serial No. 09/508,923

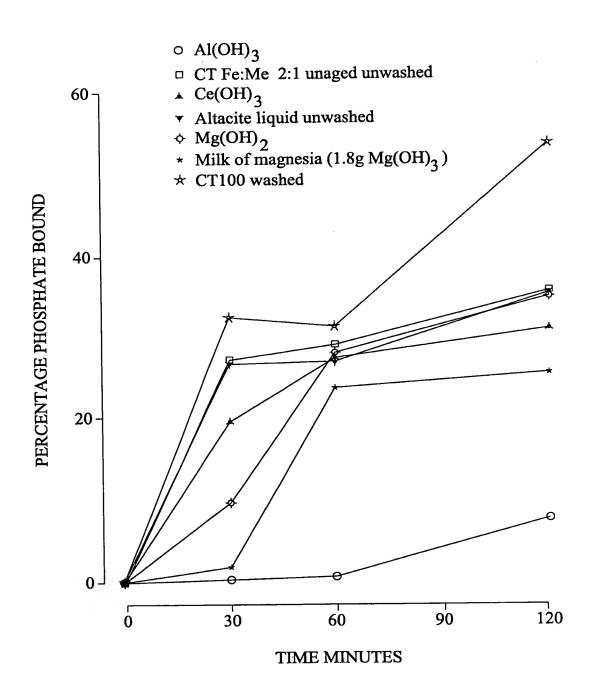
Filed: June 19, 2000 Confirmation No. 3694

Atty Reference: 081935/0266300 Sheet 5 of 10

GAU: 1754

#### FIG. 5

Time course of phosphate binding in food



U.S. Serial No. 09/508,923

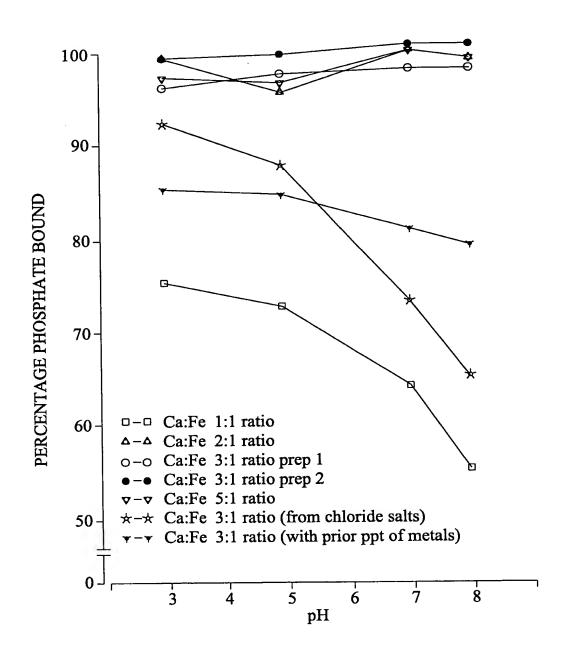
Filed: June 19, 2000 Confirmation No. 3694

Atty Reference: 081935/0266300 Sheet 6 of 10

GAU: 1754

#### FIG. 6

Phosphate binding by the calcium ferric iron preparations over the pH range 3-8



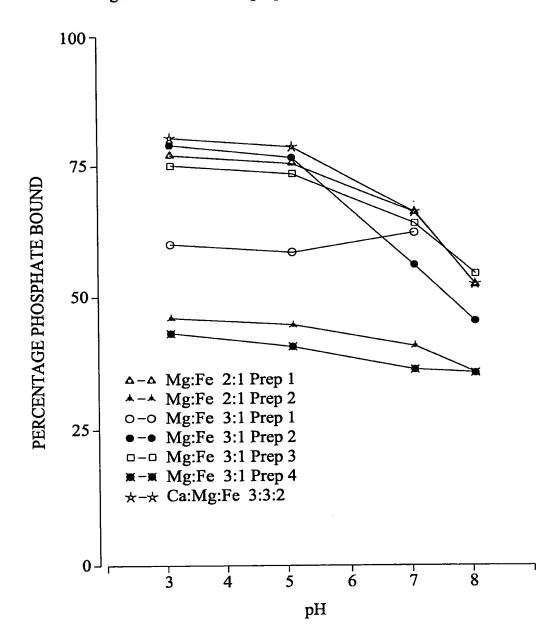
U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

GAU: 1754

#### FIG. 7

Phosphate binding by the magnesium ferric iron and calcium magnesium ferric iron preparations over the pH range 3-8



JUL 0 3 2003 H

U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

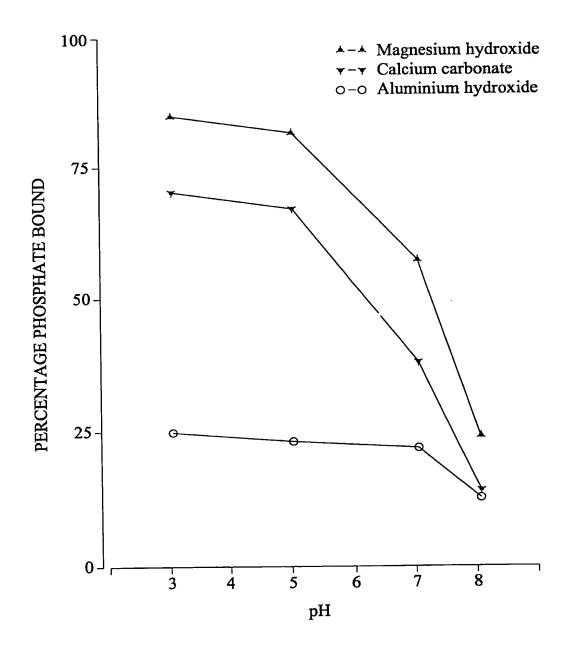
Atty Reference: 081935/0266300

Sheet 8 of 10

GAU: 1754

# FIG. 8

Phosphate binding by aluminium hydroxide, magnesium hydroxide and calcium carbonate over the pH range 3-8



JUL 0 3 2003 &

U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

Atty Reference: 081935/0266300

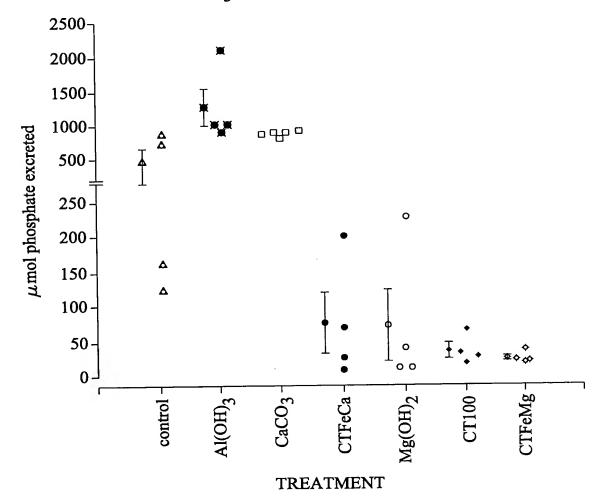
Sheet 9 of 10

GAU: 1754

### FIG. 9

Individual and mean (±1SEM) urinary phosphate excretion for control rats and those treated with phosphate binding compounds.

Individual values of urinary phosphate excretion (µmol/24 hours) were plotted for controls (△) and animals treated with Al(OH)<sub>3</sub>(■), CaCO<sub>3</sub>(□), CTFeCa(•), Mg(OH)<sub>2</sub>(∘), CT100 (•) and CTFeMg (•). Mean (±SEM) for each group are presented by points with error bars. \*p<0.05 compared to Al(OH)<sub>3</sub> treated animal groups.



rinspury willumop EE U.S. Serial No. 09/508,923

Filed: June 19, 2000 Confirmation No. 3694

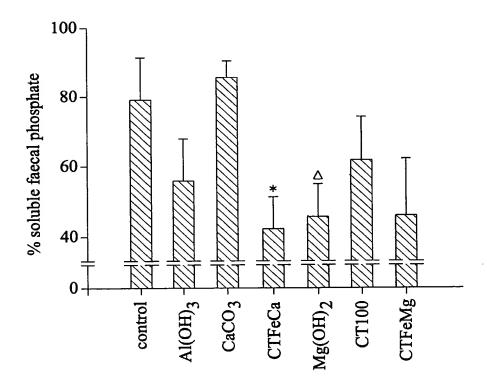
Atty Reference: 081935/0266300 Sheet 10 of 10

GAU: 1754

## FIG. 10

Mean (+1SEM) soluble faecal phosphate (g-1 dry weight as a percentage of total soluble and unsoluble) faecal phosphate (g-1 dry weight) for control rats and those treated with phosphate binding compounds.

- \* p<0.05 compared to control and CaCO3treated animals
- △ p<0.05 compared to CaCO3 treated animals



TREATMENT